

# Single Year R&D Programs

SIPS & 1 Year Lab Call

# Initiatives to date

| Solicitation | Projects Selected | Nominal Start | Nominal Duration | Median Award Size |
|--------------|-------------------|---------------|------------------|-------------------|
| FY18 SIPS    | 9                 | Feb. 2019     | 18               | \$400,000         |
| FY20 Labcall | 9                 | Oct. 2019     | 12               | \$400,000         |
| FY20 SIPS    | TBD               | Jan 2021      | 12+              | \$300,000+        |
| FY21 Labcall | TBD               | Oct. 2020     | 12               | \$400,000         |

# Why do this?

## Traditionally SETO has funded component R&D

- Requires substantial investment to arrive at relevant capstone testing

## Agile response to single high risks

- Focused low TRL effort may determine if a concept deserves substantial funding
- Single innovation may be needed to fill a gap on a known technology

## Provides a consistent funding mechanism

- Researchers can anticipate funding opportunities and plan accordingly

## Open to ideas outside what we anticipate

- Other FOA topics can be highly specific
- Forces SETO to evaluate outside the box concepts

# Other Features

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## Simplified Application Process

- No concept paper, Reduced application length
- No in-person merit review

## Modified Management Practices

- Reduced reporting requirements
- More amenable to time over-runs

## Downsides

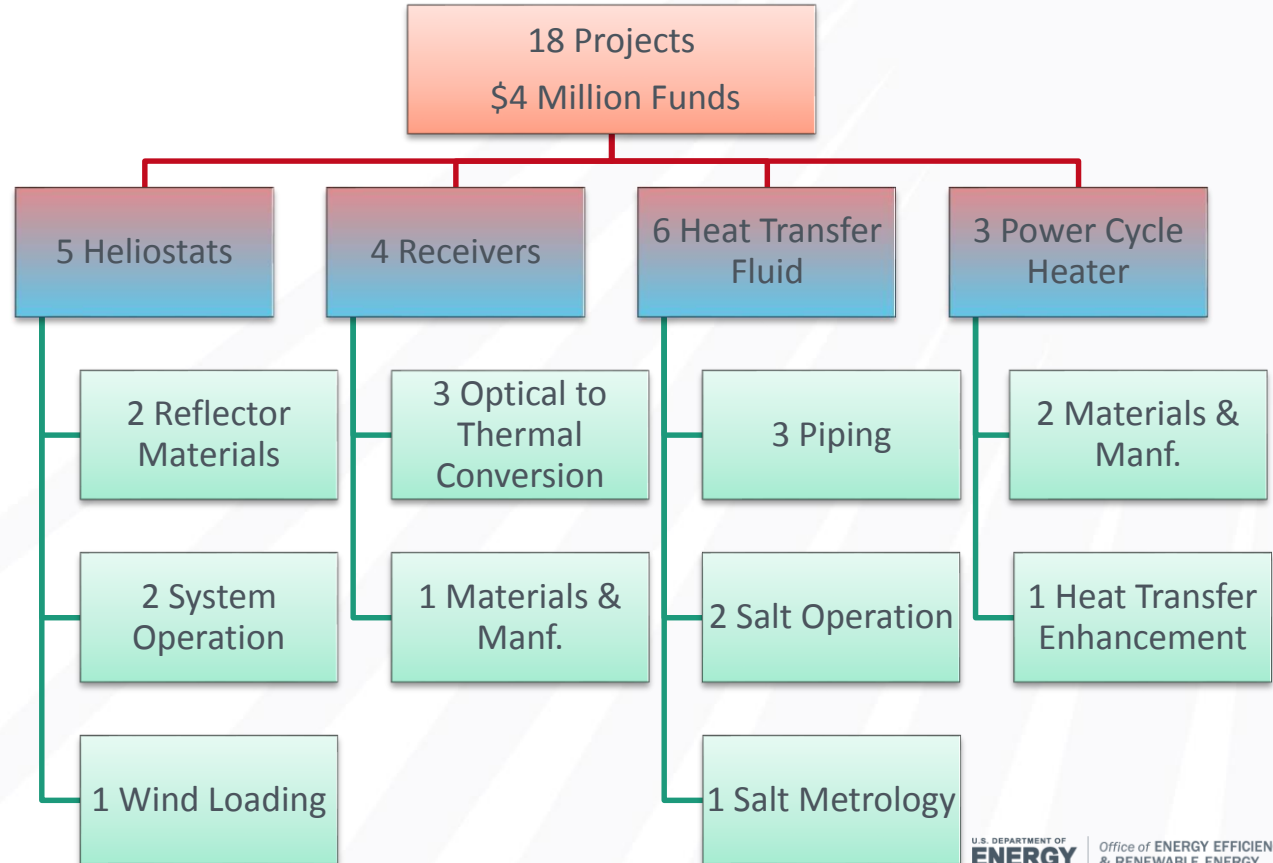
- Heavier Administrative Burden per Dollar Spent
- Challenging to manage staff hiring for such short project periods

# Overview of selected projects

12 Materials, Manufacturing

5 “Follow on projects”

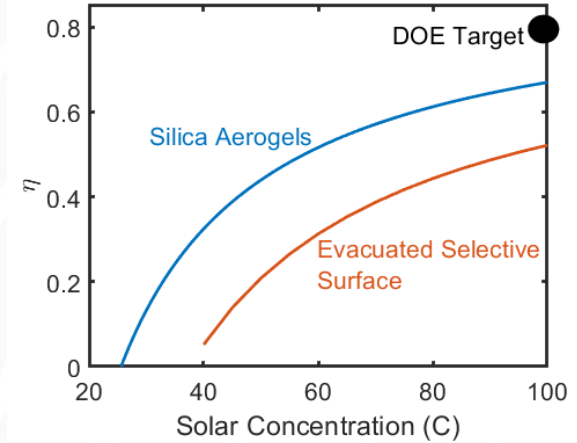
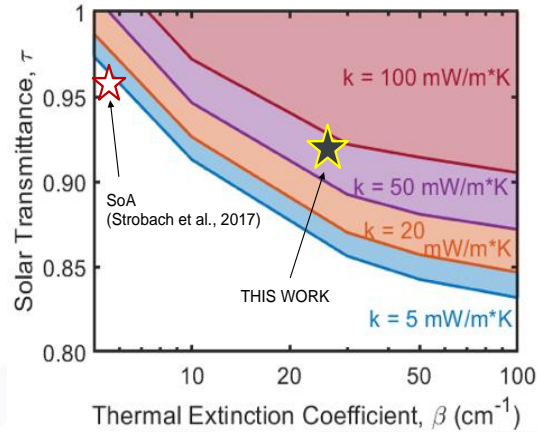
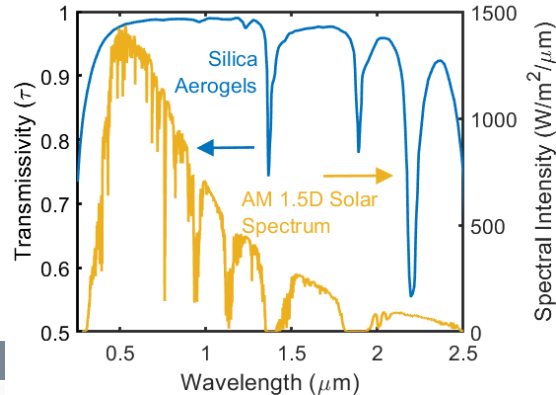
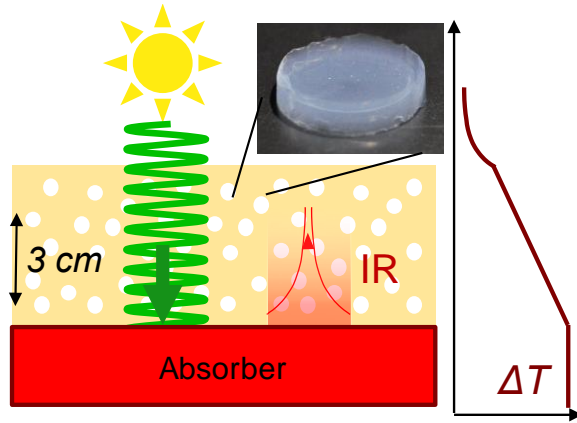
New Relationships with  
PNNL, LLNL, University of  
Michigan, University of Utah



# Sample project:

## Robust and Spectrally-Selective Aerogels for Solar Receivers

PI: ANDREJ LENERT / UNIVERSITY OF MICHIGAN



Trough Receivers at Gen3 CSP temperatures without vacuum tubes.

**A Paradigm Shift!**

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